

Claims:

1. Method for determining at least one characteristic of a molten metal (4), by means of a measuring device (8) for generating measurement data of this characteristic, and a processing device (7) arranged outside of the molten metal, for processing these measurement data, whereby the measuring device (8) is introduced into the molten metal (4), characterized in that the measurement data are directly transmitted from the measuring device (8) to the processing device (7), in wireless manner.
2. Method according to claim 1, characterized in that the measuring device (8) is introduced into the molten metal (4) from a drop station (6).
3. Method according to at least one of the above claims, characterized in that the method is carried out automatically.
4. Method according to at least one of the above claims, characterized in that the measurement data are transmitted in the wavelength range of the ISM bands.
5. Device (3) for determining at least one characteristic of a molten metal (4), having a measuring device (8), by means of which measurement data of this characteristic can be generated, and a processing device (7) arranged outside of the molten metal, by means of which these measurement data can be processed, whereby the measuring device (8) can be

introduced into the molten metal (4) to perform a measurement, characterized in that the measurement data are directly transmitted from the measuring device (8) to the processing device (7), in wireless manner.

6. Device according to claim 5, characterized in that the measuring device (8) has an integrated transmission antenna (14), which is arranged at least partly above a slag layer (27) that is located on top of the molten metal (4), when the measuring device (8) floats in the molten metal (4).
7. Device according to claim 6, characterized in that the transmission antenna (14) is mantled by a coating (18).
8. Device (3) according to claim 7, characterized in that the measuring device (8) can be introduced into the molten metal (4) from a drop station (6).
9. Device (3) according to the above claim, characterized in that several measuring devices (8) can be magazined in the drop station (6).
10. Device (3) according to at least one of the above device claims, characterized in that the measurement data can be transmitted in the wavelength range of the ISM bands.
11. Measuring device (8) for being introduced into molten metal (4) and generating measurement data of at least one characteristic of the molten metal (4), characterized in that the measurement data can be directly transmitted from

the measuring device (8) to a processing device (7) that is located outside the molten metal (4), for processing of these measurement data, in wireless manner.